

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/852,958
Source: JFW16
Date Processed by STIC: 12/30/2005

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 12/30/2005
 PATENT APPLICATION: US/09/852,958 TIME: 13:01:04

Input Set : A:\BTHO1006.txt
 Output Set: N:\CRF4\12302005\I852958.raw

3 <110> APPLICANT: Sirbasku, Davis
 5 <120> TITLE OF INVENTION: Compositions and Methods for Demonstrating
 Secretory Immune
 6 System Regulation of Steroid Hormone Responsive Cancer Cell
 7 Growth
 9 <130> FILE REFERENCE: BTHO:1006
 11 <140> CURRENT APPLICATION NUMBER: 09/852,958
 12 <141> CURRENT FILING DATE: 2001-05-10
 14 <150> PRIOR APPLICATION NUMBER: 60/203,314
 15 <151> PRIOR FILING DATE: 2000-05-10
 17 <150> PRIOR APPLICATION NUMBER: 60/208,348
 18 <151> PRIOR FILING DATE: 2000-05-31
 20 <150> PRIOR APPLICATION NUMBER: 60/208,111
 21 <151> PRIOR FILING DATE: 2000-05-31
 23 <150> PRIOR APPLICATION NUMBER: 60/229,071
 24 <151> PRIOR FILING DATE: 2000-08-30
 26 <150> PRIOR APPLICATION NUMBER: 60/231,273
 27 <151> PRIOR FILING DATE: 2000-09-08
 29 <160> NUMBER OF SEQ ID NOS: 26
 31 <170> SOFTWARE: PatentIn version 3.3
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 7
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Homo sapiens
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (3)..(3)
 42 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 44 <220> FEATURE:
 45 <221> NAME/KEY: misc_feature
 46 <222> LOCATION: (5)..(6)
 47 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 49 <400> SEQUENCE: 1
 W--> 51 Ile Leu Xaa Tyr Xaa Xaa Leu
 52 1 5
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 7
 57 <212> TYPE: PRT
 58 <213> ORGANISM: homo sapiens
 61 <220> FEATURE:
 62 <221> NAME/KEY: misc_feature
 63 <222> LOCATION: (3)..(3)
 64 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 66 <220> FEATURE:

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67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: (5)..(6)
69 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
71 <400> SEQUENCE: 2
W--> 73 Val Leu Xaa Tyr Xaa Xaa Leu
74 1 5
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 381
79 <212> TYPE: PRT
80 <213> ORGANISM: homo sapiens
83 <220> FEATURE:
84 <221> NAME/KEY: mat_peptide
85 <222> LOCATION: (1)..(381)
87 <400> SEQUENCE: 3
89 Arg His Thr Arg Gln Gly Trp Ala Leu Arg Pro Val Leu Pro Thr Gln
90 1 5 10 15
93 Ser Ala His Asp Pro Pro Ala Val His Leu Ser Asn Gly Pro Gly Gln
94 20 25 30
97 Glu Pro Ile Ala Val Met Thr Phe Asp Leu Thr Lys Ile Thr Lys Thr
98 35 40 45
101 Ser Ser Ser Phe Glu Val Arg Thr Trp Asp Pro Glu Gly Val Ile Phe
102 50 55 60
105 Tyr Gly Asp Thr Asn Pro Lys Asp Asp Trp Phe Met Leu Gly Leu Arg
106 65 70 75 80
109 Asp Gly Arg Pro Glu Ile Gln Leu His Asn His Trp Ala Gln Leu Thr
110 85 90 95
113 Val Gly Ala Gly Pro Arg Leu Asp Asp Gly Arg Trp His Gln Val Glu
114 100 105 110
117 Val Lys Met Glu Gly Asp Ser Val Leu Leu Glu Val Asp Gly Glu Glu
118 115 120 125
121 Val Leu Arg Leu Arg Gln Val Ser Gly Pro Leu Thr Ser Lys Arg His
122 130 135 140
125 Pro Ile Met Arg Ile Ala Leu Gly Leu Leu Phe Pro Ala Ser Asn
126 145 150 155 160
129 Leu Arg Leu Pro Leu Val Pro Ala Leu Asp Gly Cys Leu Arg Arg Asp
130 165 170 175
133 Ser Trp Leu Asp Lys Gln Ala Glu Ile Ser Ala Ser Ala Pro Thr Ser
134 180 185 190
137 Leu Arg Ser Cys Asp Val Glu Ser Asn Pro Gly Ile Phe Leu Pro Pro
138 195 200 205
141 Gly Thr Gln Ala Glu Phe Asn Leu Arg Asp Ile Pro Gln Pro His Ala
142 210 215 220
145 Glu Pro Trp Ala Phe Ser Leu Asp Leu Gly Leu Lys Gln Ala Ala Gly
146 225 230 235 240
149 Ser Gly His Leu Leu Ala Leu Gly Thr Pro Glu Asn Pro Ser Trp Leu
150 245 250 255
153 Ser Leu His Leu Gln Asp Gln Lys Val Val Leu Ser Ser Gly Ser Gly
154 260 265 270
157 Pro Gly Leu Asp Leu Pro Leu Val Leu Gly Leu Pro Leu Gln Leu Lys

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Input Set : A:\BTH01006.txt
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158      275      280      285
161 Leu Ser Met Ser Arg Val Val Leu Ser Gln Gly Ser Lys Met Lys Ala
162    290        295      300
165 Leu Ala Leu Pro Pro Leu Gly Leu Ala Pro Leu Leu Asn Leu Trp Ala
166 305        310      315      320
169 Lys Pro Gln Gly Arg Leu Phe Leu Gly Ala Leu Pro Gly Glu Asp Ser
170        325      330      335
173 Ser Thr Ser Phe Cys Leu Asn Gly Leu Trp Ala Gln Gly Gln Arg Leu
174        340      345      350
177 Asp Val Asp Gln Ala Leu Asn Arg Ser His Glu Ile Trp Thr His Ser
178        355      360      365
181 Cys Pro Gln Ser Pro Gly Asn Gly Thr Asp Ala Ser His
182        370      375      380
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 367
187 <212> TYPE: PRT
188 <213> ORGANISM: Oryctolagus cuniculus
190 <400> SEQUENCE: 4
192 Thr Gln Arg Ala Gln Asp Ser Pro Ala Val His Leu Ile Asn Gly Leu
193 1          5          10         15
196 Gly Gln Glu Pro Ile Gln Val Leu Thr Phe Asp Leu Thr Arg Leu Val
197        20          25         30
200 Lys Ala Ser Ser Ser Phe Glu Leu Arg Thr Trp Asp Ser Glu Gly Val
201        35          40         45
204 Ile Phe Tyr Gly Asp Thr Ser Pro Lys Asp Asp Trp Phe Met Leu Gly
205        50          55         60
208 Leu Arg Asp Gly Arg Pro Glu Ile Gln Met His Asn Pro Trp Ala Gln
209 65          70          75         80
212 Leu Thr Val Gly Ala Gly Pro Arg Leu Asp Asp Gly Ser Trp His Gln
213        85          90         95
216 Val His Val Lys Ile Arg Gly Asp Ser Val Leu Leu Glu Val Asp Gly
217        100         105        110
220 Lys Glu Val Leu Arg Leu Ser Gln Val Ser Gly Thr Leu His Asp Lys
221        115         120        125
224 Pro Gln Pro Val Met Lys Leu Ala Val Gly Gly Leu Leu Phe Pro Pro
225        130         135        140
228 Ser Ser Leu Arg Leu Pro Leu Val Pro Ala Leu Asp Gly Cys Leu Arg
229 145         150         155        160
232 Arg Gly Ser Trp Leu Asp Pro Gln Ala Gln Ile Ser Ala Ser Ala His
233        165         170         175
236 Ala Ser Arg Arg Ser Cys Asp Val Glu Leu Gln Pro Gly Ile Phe Phe
237        180         185         190
240 Pro Pro Gly Thr His Ala Glu Phe Ser Leu Gln Asp Ile Pro Gln Pro
241        195         200         205
244 Gln Thr Glu Pro Trp Ala Phe Ser Leu Asp Leu Glu Leu Lys Pro Ser
245        210         215         220
248 Glu Gly Ser Gly Arg Leu Leu Ala Leu Gly Thr Pro Glu Asp Pro Asn
249 225         230         235         240
252 Trp Leu Ser Leu His Leu Gln Asp Gln Lys Val Val Leu Ser Ser Gly

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Input Set : A:\BTH01006.txt
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253	245	250	255
256	Met Glu Pro Gly Leu Asp Leu Pro Leu Ala Trp Gly Leu Pro Leu Gln		
257	260	265	270
260	Leu Lys Leu Gly Val Ser Thr Ala Val Leu Ser Gln Gly Ser Lys Lys		
261	275	280	285
264	Gln Ala Leu Gly Leu Pro Pro Ser Gly Leu Gly Pro Leu Leu Asn Leu		
265	290	295	300
268	Trp Ala Gln Pro Gln Gly Arg Leu Phe Leu Gly Ala Leu Pro Gly Glu		
269	305	310	315
270	Asp Ser Ser Ala Ser Phe Cys Leu Asp Gly Leu Trp Ala Gln Gly Gln		
273	325	330	335
276	Lys Leu Asp Met Asp Lys Ala Leu Asn Arg Ser Gln Asp Ile Trp Thr		
277	340	345	350
280	His Ser Cys Pro Ser Ser Pro Gly Asn Gly Thr Asp Thr Ser His		
281	355	360	365
284	<210> SEQ ID NO: 5		
285	<211> LENGTH: 373		
286	<212> TYPE: PRT		
287	<213> ORGANISM: Rattus norvegicus		
289	<400> SEQUENCE: 5		
291	Leu Arg His Ile Asp Pro Ile Gln Ser Ala Gln Asp Ser Pro Ala Lys		
292	1	5	10
			15
295	Tyr Leu Ser Asn Gly Pro Gly Gln Glu Pro Val Thr Val Leu Thr Ile		
296	20	25	30
299	Asp Leu Thr Lys Ile Ser Lys Pro Ser Ser Ser Phe Glu Phe Arg Thr		
300	35	40	45
303	Trp Asp Pro Glu Gly Val Ile Phe Tyr Gly Asp Thr Asn Thr Glu Asp		
304	50	55	60
307	Asp Trp Phe Met Leu Gly Leu Arg Asp Gly Gln Leu Glu Ile Gln Leu		
308	65	70	75
			80
311	His Asn Leu Trp Ala Arg Leu Thr Val Gly Phe Gly Pro Arg Leu Asn		
312	85	90	95
315	Asp Gly Arg Trp His Pro Val Glu Leu Lys Met Asn Gly Asp Ser Leu		
316	100	105	110
319	Leu Leu Trp Val Asp Gly Lys Glu Met Leu Cys Leu Arg Gln Val Ser		
320	115	120	125
323	Ala Ser Leu Ala Asp His Pro Gln Leu Ser Met Arg Ile Ala Leu Gly		
324	130	135	140
327	Gly Leu Leu Leu Pro Thr Ser Lys Leu Arg Phe Pro Leu Val Pro Ala		
328	145	150	155
			160
331	Leu Asp Gly Cys Ile Arg Arg Asp Ile Trp Leu Gly His Gln Ala Gln		
332	165	170	175
335	Leu Ser Thr Ser Ala Arg Thr Ser Leu Gly Asn Cys Asp Val Asp Leu		
336	180	185	190
339	Gln Pro Gly Leu Phe Phe Pro Pro Gly Thr His Ala Glu Phe Ser Leu		
340	195	200	205
343	Gln Asp Ile Pro Gln Pro His Thr Asp Pro Trp Thr Phe Ser Leu Glu		
344	210	215	220
347	Leu Gly Phe Lys Leu Val Asp Gly Ala Gly Arg Leu Leu Thr Leu Gly		

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Input Set : A:\BTH01006.txt
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348	225	230	235	240
351	Thr Gly Thr Asn Ser Ser Trp Leu Thr Leu His Leu Gln Asp Gln Thr			
352	245	250	255	
355	Val Val Leu Ser Ser Glu Ala Glu Pro Lys Leu Ala Leu Pro Leu Ala			
356	260	265	270	
359	Val Gly Leu Pro Leu Gln Leu Lys Leu Asp Val Phe Lys Val Ala Leu			
360	275	280	285	
363	Ser Gln Gly Pro Lys Met Glu Val Leu Ser Thr Ser Leu Leu Arg Leu			
364	290	295	300	
367	Ala Ser Leu Trp Arg Leu Trp Ser His Pro Gln Gly His Leu Ser Leu			
368	305	310	315	320
371	Gly Ala Leu Pro Gly Glu Asp Ser Ser Ala Ser Phe Cys Leu Ser Asp			
372	325	330	335	
375	Leu Trp Val Gln Gly Gln Arg Leu Asp Ile Asp Lys Ala Leu Ser Arg			
376	340	345	350	
379	Ser Gln Asp Ile Trp Thr His Ser Cys Pro Gln Ser Pro Ser Asn Asp			
380	355	360	365	
383	Thr His Thr Ser His			
384	370			
387	<210> SEQ ID NO: 6			
388	<211> LENGTH: 353			
389	<212> TYPE: PRT			
390	<213> ORGANISM: Phodopus sungorus			
392	<400> SEQUENCE: 6			
394	Asn Gly Pro Gly Gln Glu Pro Val Ala Val Met Thr Ile Asp Leu Thr			
395	1	5	10	15
398	Gln Met Ser Lys Pro Tyr Ser Ser Phe Glu Phe Arg Thr Leu Asp Pro			
399	20	25	30	
402	Glu Gly Val Ile Phe Tyr Gly Asp Thr Asn Thr Lys Asp Asp Trp Phe			
403	35	40	45	
406	Met Leu Gly Leu Arg Asp Gly Gln Leu Glu Ile Gln Met His Asn Pro			
407	50	55	60	
410	Trp Ala Gln Leu Thr Val Gly Phe Gly Pro Arg Leu Asn Asp Gly Arg			
411	65	70	75	80
414	Trp His Gln Val Glu Leu Lys Met Ser Gly Asp Ser Leu Gln Leu Trp			
415	85	90	95	
418	Val Asp Gly Lys Glu Leu Leu Cys Leu Arg Gln Ile Ser Gly Thr Leu			
419	100	105	110	
422	Ala Asn Asn Ser Trp Pro Ser Met Arg Ile Ala Leu Gly Gly Leu Leu			
423	115	120	125	
426	Leu Pro Thr Ser Ser Leu Arg Phe Pro Leu Val Pro Ala Leu Asp Gly			
427	130	135	140	
430	Cys Leu Arg Arg Asp Thr Trp Leu Gly His Gln Val His Leu Ser Pro			
431	145	150	155	160
434	Ser Ala Pro Asn Leu Gly Asn Cys Asp Val Asp Leu Gln Pro Gly Leu			
435	165	170	175	
438	Phe Phe Pro Gln Gly Thr His Ala Glu Phe Ser Leu Gln Asp Ile Pro			
439	180	185	190	
442	Gln Pro Arg Thr Asp Pro Trp Ser Phe Ser Leu Glu Leu Gly Leu Lys			

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958 TIME: 13:01:05

Input Set : A:\BTHO1006.txt
Output Set: N:\CRF4\12302005\I852958.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3,5,6
Seq#:2; Xaa Pos. 3,5,6
Seq#:13; Xaa Pos. 5
Seq#:21; Xaa Pos. 5
Seq#:22; Xaa Pos. 6

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/852,958

DATE: 12/30/2005

TIME: 13:01:05

Input Set : A:\BTHO1006.txt

Output Set: N:\CRF4\12302005\I852958.raw

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0